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Magazine

Business and the Atom

**Industrial Television** 

Memo on Marketing

The Population Outlook

You Can Be an Economist!

October, 1952 • 356



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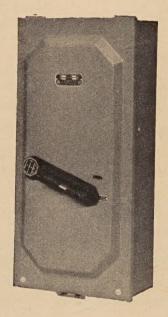


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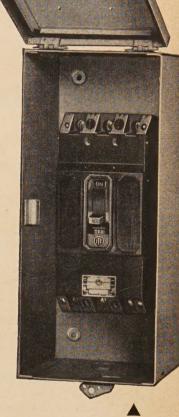


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statistics of . . .

## Chicago Business

	August, 1952	July, 1952	August, 1951
Building permits	576	605	1,029
Cost	\$ 12,191,500	\$ 16,483,000	\$ 17,558,47
Contracts awarded on building projects,		1 050	2,08
Cook Co.	1,600 \$ 45,012,000	1,852 \$ 64,699,000	
(F. W. Dodge Corp.)	\$ 45,012,000	\$ 01,033,000	33,030,000
Real estate transfers	6,663	6,879	7,34
Consideration	\$ 6,278,174	\$ 7,486,537	\$ 5,446,65
Department store sales index	90.7	75.5	88.8
(Federal Reserve Board)			
(Daily average 1947-49 = 100)			
Bank debits to individual accounts: 7th Federal Reserve District	\$17.851.390.000	\$90 605 993 000	\$10 947 550 00
Chicago only			
(Federal Reserve Board)			
Midwest Stock Exchange transactions:			
Number of shares traded		1,055,044 \$ 35,389,096	1,315,65
Railway express shipments, Chicago area		900,555	868,09
Air express shipments, Chicago area	52,975	52,092	53,55
L.C.L. merchandise cars	20,685	18,907	20,77
Electric power production, kwh	1,192,231,000	1,121,094,000	1,167,960,00
Industrial gas sales, therms	10,654,363	10,789,696	10,485,66
Revenue passengers carried by Chicago		6	
Transit Authority lines: Surface division	41,076,900	40,657,581	45,501,55
Rapid transit division		10,903,334	11,907,5
Postal receipts	\$ 10,275,667	\$ 9,318,626	\$ 9,462,0
Consumers' Price Index (1935-39 = 100)	196.7	195.9	190
Receipts of salable livestock	366,824	386,343	365,3
Families on relief rolls:			
Cook County		20,439	21,4,
Other Illinois counties	11,762	12,042	13,2

<sup>\*</sup> Preliminary figure.

Date Due

November, 1952, Tax Calendar\_

oute Duc	1 dx
15	If total O.A.B. taxes (employer and employe) plus income tax withheld in previous month exceeds \$100, pay amount to
	Wind Bull to

15 Illinois Retailers' Occupation Tax return and payment for month of October

30 Federal Excise Tax return and payment due for October, 1952

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Director of Revenu Collector of Interna

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# COMMERCE

## Magazine

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October, 1952

Volume 49

Number 9

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in this

Many businessmen do not realize that longrange planning in vir-

tually all fields of enterprise should now take into consideration the development of atomic energy. So declares Paul J. Lovewell, whose article "Business Planning in the Atomic Era" (p. 13) explores the wide range of corporate activities that will be vitally affected by atomic research. The author, who is assistant chairman of the department of industrial economics of Stanford Research Institute, notes that most businessmen realize that the atom will affect their companies sometime in the future. His article suggests specific ways in which that influence will be feltperhaps very soon.

• • •

Theodore H. Silbert, president of Standard Factors Corporation, has been analyzing population statistics and they have convinced him that those who feel the "housing boom" is a more or less permanent phenomenon are in for a rude awakening. His article (p. 15) argues that there will be fewer marriages over the next decade and thus a lessening demand for new homes — as well as the wide variety of merchandise that goes into a new home.

. . .

Selling, as every management man knows, is the number one problem of business these days. It's been easy going for a long time, but now every firm must tighten up and freshen up its marketing program. Beginning on page 19, Marketing Consultant Robert P. Elrick offers a check-list covering the most common marketing problems along with advice as to how to attack these problems systematically.

. . .

Emerson P. Schmidt, director of economic research of the Chamber of Commerce of the United States, discusses, with many a humorous sidelight, the growing importance of economic analysis in business (p. 16). The role of private channel television in commerce and industry is discussed (p. 20) by R. W. Barrow, business writer.



# GLOBE CORPORATION

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## The Editor's Page

## Oil Progress Week

From October 12 to 18, Oil Progress Week will be observed throughout the country, an industry recognition that is richly deserved. The petroleum industry has accomplished so much toward the enrichment of life in this nation, that the average person sometimes takes this dramatic record for granted. Now, on the occasion of Oil Progress Week it is appropriate to recall some of the more outstanding facts.

Less than a century ago Pennsylvania was the only oil-producing state. Today, thanks to research and extensive exploration, there are 27 oil-producing states. Fifty years ago motor car fuel was available in a few general stores. Today there are over 200,000 service stations. As for constant cost reduction, consider the fact that it costs less to ship two gallons of gas from Texas to New York than to mail a postcard. And eliminating the taxes on gasoline, which never stop rising, today's motor fuel costs about the same as in 1925 – yet two gallons now do the work that once required three.

Then there's all that talk about a ruinous crude oil shortage. But last year when consumption soared upward, the oil industry found two gallons of new oil for every gallon used. The result is that known underground supplies are now four times what they were 30 years ago. All in all, Oil Progress Week marks a great achievement for the United States and U. S. industry.

#### The Blue Ballot

Voters of Illinois will have an opportunity at the general election on November 4 to make four much needed amendments in provisions of the state constitution which have stood without change since the constitution was adopted in 1870. The four proposed amendments would make these changes:

1. Eliminate the present requirement that all kinds of property must be assessed on the same basis and substitute a provision permitting the legislature to classify property for taxation.

2. Eliminate the double liability on stock of banks

chartered by the state.

3. Permit electors of a county, if they so desire, to reelect a sheriff or county treasurer to succeed himself in office.

4. Eliminate specific salary limits for certain county officials which were written into the constitution in 1870, and place future control of such limits in the hands of the General Assembly.

Reasons for the third and fourth proposals are self-evident. Elimination of double liability on state bank stocks would correct an inequity which has existed since 1937, when double liability was removed from national bank shares. Since then its continuance on state chartered banks has discouraged

investment of additional capital in state banks of Illinois, mitigated against formation of new state banks and encouraged the conversion of state banks into national banks.

The proposal to permit the legislature to classify property for taxation would open the way for an intelligent system of state taxation to replace the existing archaic and grossly unfair method. At present non-income producing personal property is supposed to be taxed on the same basis as income producing property. This is manifestly unfair and therefore unworkable. It has resulted in widespread tax evasion and delinquency. By permitting the legislature to place different kinds of property in different categories each class could be separately and justly taxed. The amendment would not permit a graduated income tax to be levied. In fact, such a tax is expressly prohibited.

These necessary modernizations of Illinois' constitution are to be submitted to voters as separate propositions on a separate blue ballot. For passage, each proposition will require a favorable vote by two-thirds of those voting on the proposition or a majority of all votes cast at the election. Both parties and many leading civic organizations favor adoption of the amendments. Their adoption will constitute a long step forward in modernizing obsolete portions of the state's constitution.

#### Vote!

As is customary in every presidential election year, the statistically minded are providing us with a lot of figures on the electorate. For instance, we learn that almost 99,000,000 Americans will be eligible to vote on November 4. Of this total, 9½ million will be young folks having their first chance to vote in a presidential election. Statisticians have also computed that some 13 per cent of eligible voters are over 65 years of age.

These facts are interesting but not too significant when only about half of the voters actually exercise their franchise as was the case in 1948. Although we regard ourselves as the leading democracy of the world our democratic allies in Western Europe invariably show much higher percentage of their electorates who take the time and trouble to exercise their franchises. The citizen who, because of either indifference or indecision, fails to vote is letting the other fellow elect his government for him. What's more, in recent elections in this country so many have stayed away from the polls that a minority of roughly 25 per cent has done the electing.

Man Sturdy

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# Here...There... and Everywhere

- "Inventiveness" Pays-Employes of Westinghouse Electric Corporation at Pittsburgh have come up with 80 per cent more "patent ideas" this year, and the company believes the marked rise in "inventiveness" can be traced to a new award plan under which an employe can win as many as four prizes for an outstanding idea. Under the plan, each employe submitting a written description of an invention or idea believed to be patentable receives \$25 if it is considered meritorious by a reviewing committee. He can win an extra \$200 if his idea is judged the best among his particular group of employes, and another \$50 if Westinghouse applies for a patent on the invention. Finally, he can win a special award ranging up to \$5,000 (which may later be repeated), if the invention proves of "outstanding commercial value to the company." In the first seven months of this year Westinghouse paid out \$95,000 in awards for such 'inventiveness."
- Back Pay Bottleneck Millions of dollars in potential back pay awards are piling up against employers because of prolonged delays in securing decisions from the National Labor Relations Board. Commerce Clearing House reports that on the average more than 400 days are taken to process an unfair labor practice case. When, as often happens, a union charges an employer with illegal discharges and the NLRB upholds the union, the employer may be ordered to pay his workers all wages from the time he illegally discharged them.
- Add Tax Woes Railway taxes in the last 10 years. reports the Missouri Pacific Lines, exceeded total expenditures of the federal government from George Washington's time right through the ad-

- ministration of Grover Cleveland! a period of 98 years! These expeditures included the entire costs the government of the Indian Wanthe war against the Tripolitation pirates, the War of 1812, the Mexican War, and the Civil War.
- Unusual Ad Medium Although newspaper "want ads" are usuall regarded as the principal medium for buying or selling a house, two leading Chicago realtors now repor that their biggest business-producing medium is the classified telephone directory. Louis B. Beardslee, who specializes in industrial properties and Sadler and Hultman, Inc., on Evanston, which specializes in resi dential property, have made the im teresting discovery that many busis nessmen coming to a new city to look for a home or a plant location first consult the telephone directory in their hotel room. This practice say these realtors, has made the classified directory their best real estate medium.
- Gyp Warning Home owners in over 40 cities are being gypped into expensive renovation jobs, according to the Northwestern National Life Insurance Company, by the old "model home" trick. The scheme is to get home owners to sign up for any of a number of different types of jobs - imitation brick siding, asbestos siding and roofing, basement waterproofing, even complete renovation jobs-at a "special low price," after which the buyer is promised a commission on all future sales which result from showing his "model" job to others. "Actually," says the insurance company, "the victim is merely 'suckered' into signing a standard contract for the work, and in many cases is charged double what an honest contractor would bill for

(Continued on page 32)



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## Trends... in Finance and Business



• Big Little Publishers - Most folks are acquainted with the fact that almost every business gets out some form of a company publication for its employes, customers and stockholders. But few realize the tremendous size of this specialized publishing business. Recently, the International Council of Industrial Editors surveyed company publications and turned up these arresting facts: all company publications taken together now have a combined monthly circulation of 70,-718,860 - 30 per cent more than the circulation of all U. S. daily newspapers and four times larger than the four leading general magazines; an estimated \$112,373,820 is being spent annually on some 6,500 company publications.

The survey further disclosed that although a few company publications are 95 years old, over 60 per cent of those currently published are less than 10 years old. Individual circulations vary widely. Many a two-page newsletter is issued to less than 100 employes, while some publications actually have mass circulation. The Ford Times is sent to 1.5 million families, and General Motor's Friends

reaches 1.4 million homes.

Today, most companies prefer a magazine type publication, according to ICIE survey. Three out of every five are of this format, whereas in 1948 company publications were about evenly divided between magazines and newspapers.

 Another Tax Peak—State tax collections reached another all-time high of \$9.8 billion in the 1951-52 fiscal year, according to Commerce Clearing House. The increase was more than 10 per cent above 1951 when the collections were \$8.9 billion. Furthermore, across the nation the average per-capita cost of star taxes increased to \$64 last year against \$60 the previous year.

Citizens of Louisiana and Wash ington shared the highest per-capit tax burden in fiscal 1952 - \$100 New Jersey retained the distinction of collecting the lowest per-capit tax - \$36. The per-capita levy i Illinois was \$52.

• Bank Lending Up-Illinois banks are serving a record number of people through installment credi with some 387,385 borrowers nov owing \$219,592,322, or more than 22 per cent of the total loans of the reporting banks. So reports Ken neth R. Wells, president of the irr stallment lending division of the Illinois Bankers Association, which has just completed its third annual survey of the installment loan vol ume of Illinois banks. Mr. Wells who is vice president of the Ameri can National Bank and Trust Com pany of Chicago, adds that the in stallment loan portfolio of the average bank increased about 10 per cent in the past year, a rise he be lieves is chiefly due to larger loan required under current price level rather than as a result of the revo cation of Regulation W.

The IBA survey included figures from 229 banks with resources under \$10 million, and for these banks installment loans represented 30 per cent of their total loans. Personal loans accounted for more than 37 per cent of the total; automobile loans, 23 per cent; and farm equipment loans, 16 per cent - with the remainder being home modernization, machinery and equipment, and appliance and furniture loans.

In larger banks, with resources

over \$10 million, auto loans accounted for 45 per cent of the total of \$153 million of installment loans. Home modernization represented 24 per cent and personal loans approximated 10 per cent. With the larger banks in the cities, their farm equipment loans represented only two per cent of outstanding installment credit.

• "Hidden" Costs Rise—"Hidden payroll" costs of 736 companies surveyed by the Chamber of Commerce of the United States reached a record high average last year of \$644 per employe. Of these companies, 138 had participated in two previous U. S. Chamber surveys covering the same "hidden" outlays and among these firms such payments had jumped 66 per cent in four years, or from \$410 to \$681 for each employe!

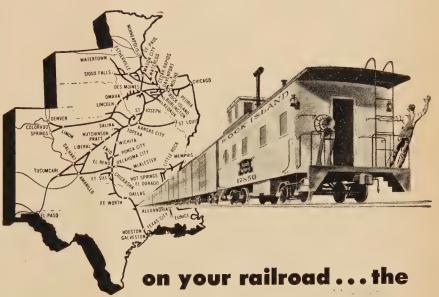
The U. S. Chamber figures, on the basis of its survey, that the national cost of industry's "hidden payroll" now approaches \$25 billion a year. The costs to the 736 companies surveyed averaged 18.7 per cent of their entire payrolls or 31.5 cents per payroll hour. The "hidden payroll," as analyzed by the U. S. Chamber, includes such employer outlays as social security; unemployment and workmen's compensation; sickness, accident, hospitalization and death benefits; terminal pay; purchase discounts; free meals; pensions; savings and stock purchase plans; paid vacations, holidays, rest and lunch periods; and profit sharing and bonus plans. Not included, however, are extra pay for night shift and Sunday work or straight production bonuses, all of which are regarded as part of a company's regular payroll.

In commenting on its study of fringe benefits, the U. S. Chamber notes that the bulk of industry's \$25 billion "hidden payroll" costs is not reported by the Bureau of Labor Statistics, which is, of course, the government's primary spokesman on prevailing wage rates. Only in the steel industry has BLS ever reported fringe benefits, and such reports have been made only occasionally.

• Anyway, They're "Rare" — There's a good chance you'll be using more ytterbium, and perhaps

(Continued on page 28)

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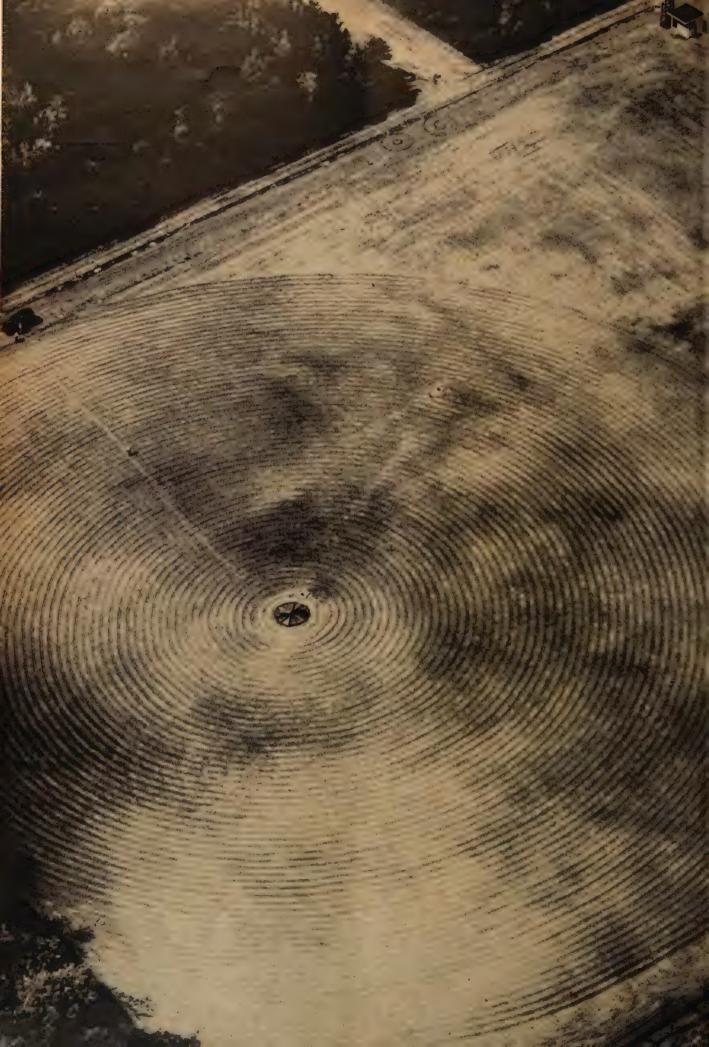
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# Business Planning in the Atomic Era

By Paul J. Lovewell

Warning from an expert: the potentialities of atomic energy must now be considered in all long-range plans

ANY businessmen have begun to realize that their businesses may be increasingly afted by technical developments merging from the atomic energy rogram. Thus, my purpose is to scuss what the atomic age is likely mean to business management ithin the next few years and over the long pull. This involves two ajor questions:

What is going on technically that ay affect business directly?

What new management problems ay arise as a result of trying to perate in a field that is so new, tremendous in its potential import, and so completely dominated y the government?

Neither question is simple to anver. And the questions must be used largely on speculation. But be culation that is, in turn, based pon a representative cross-section information coming from people orking in the field of atomic deelopment.

As for the first question, the curent technical developments that ill affect individual businesses are three types. First, there is the evelopment of heat-producing tomic reactors for the production power. Second, there is the pos-

Brookhaven Laboratory's "hot irm" where influence of radioactive aterials (center disk) on growing plants under observation. U.P. Photo sible use of the fission by-products as a source of energy for such diverse purposes as cold sterilization, industrial radiography, and activation of phosphors. Third, there is the employment of pile-produced radioisotopes for such uses as industrial research and control.

All three of these industrial potentialities are in the nature of byproducts of atomic reactor operation. As matters stand today, the real purpose of the reactor is to make plutonium. When you make plutonium, you also produce heat, waste radioactive materials — the fission by-products — and neutrons that can be used to bombard other materials to make radiosotopes.

#### Atomic Power?

Some day this may not be so with respect to the production of power from the heat generated in atomic fission. Scientists and engineers may soon solve the technical and economic problems standing in the way of competitive electric power from atomic energy when produced as a by-product of fissionable materials. Others feel the day is not too distant when an atomic power industry could exist profitably without depending on the production of a

The author is assistant chairman of the department of industrial economics at Stanford Research Institute, Stanford, Calif.

crucial and expensive defense material.

A number of private concerns have been studying this problem for over a year. Up to now, we have only general information as to their findings, but they are sufficient to indicate a trend. It seems fairly well established that production of power is technically feasible, but will be economically sound only if a sufficiently high price can be obtained from sale of the main product - plutonium. In view of the seemingly insatiable demand for plutonium by our government, the proposition of producing and selling plutonium to the government while making power for general distribution would seem to have attractive possibilities.

In fact, two companies studying the power possibilities of atomic energy, Monsanto Chemical and Union Electric, have proposed that the Atomic Energy Commission embark on the design and construction of a pilot plant reactor to produce electric power as soon as possible. According to Edwin J. Putzell, Jr., secretary of Monsanto, the companies believe a joint investment of effort and skill is called for, involving both government and private industry. And he adds the forecast that nuclear-generated power is perhaps only four to five years away, measured in terms of full-scale producing units!

This statement is certainly one to bring far-sighted business management to attention. If full-scale producing units are in operation within five years, then 10 or 20 years may well see some profound effects upon our industrial economy, especially in areas that are short in low-cost power. The introduction of a vast potential in power supply, using a fuel that is so light and compact as to be readily and economically transportable, even to distant locations, could have an almost revolutionary effect upon our economy generally - and even the remote possibility of such a thing can well have its immediate effect upon the plans of businessmen.

#### Use of Fission Products

The second area of technological advancement is in the potential industrial application of radioactive by-products of fission. These materials, now regarded as wastes, are in storage in millioncurie quantities at various AEC installations. Their potential availability as a source of large-scale, low-cost radiation opens a field of technological advance that is expected to have importance to many lines of business.

A few months ago the Stanford Research Institute in California completed a study for the AEC designed to evaluate preliminarily the technical and economic feasibility of using fission products industrially. This study concluded that, while many problems remain to be worked out, the large-scale use of fission products by industry can become a reality through the cooperative effort of industry and government.

Assuming such cooperation, the Stanford group forecast that no more than five years should be required to develop commercial applications such as high-speed, lowcost industrial radiography and the sterilization of food and drugs with out heat through exposure to radiation from fission products. Inspection processes in the metal industries could be vitally affected by such developments in radiography. Cold sterilization of food and drugs would be important, when the items to be sterilized are adversely affected by normal heat sterilization processes.

Other longer term possibilities that seem especially attractive for industrial use of fission products are portable, low-level power sources; improved propagation of flame, as in internal combustion engines; and the activation, or "triggering," of chemical reactions. These are but a few of the possibilities; still more important uses may result when fission products are available for experiment and use.

The third technological advancement that will affect industry involves the industrial use of radioisotopes. Already isotopes are being used in instruments of various sorts:

thickness gauges, liquid level gaude and density meters. They are valuable in the activation of puphors and for static eliminal through ionization of the air around a static source. In the laborated isotopes used as tracers enable so tists to trace the course of attacherough complex processes, there understanding many processes are reactions better than has ever fore been possible.

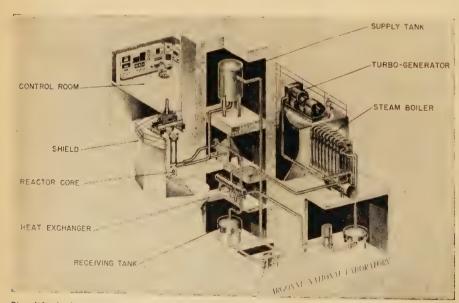
## Benefits to Industry

But these examples are only smattering of the total possibility. Examined from a businessmate viewpoint, however, they are succient to establish the widespropotential of this phase of the atom energy program upon industry.

Thus the technical developmed that will affect business can be sumarized as follows:

- 1. Potential developments atomic power, in improved industrial processes, improved industrial instrumentation, and improved dustrial research techniques, abound to have an eventual improved for major importance upon protically every segment of industry,
- 2. Manufacturing and processis concerns will be the first and madirectly affected, along with power producing utilities, in the case atomic power. Conventional presses will doubtless persist, but to introduction of atomic power as processes sired by the atomic engy program may begin on a modescale within five years. In 10 20 years, the effect upon businesshould be sufficient to be generated.
- 3. The immediate problem business management is to keep if formed as to exactly what is know and being done that will affetheir future plans. Managememust originate or approve resear programs at least sufficient to prefect their competitive interest With the knowledge that is availed, management must begin consider atomic energy and its be products as a factor in planning longterm programs, especially the that involve major investments plant and equipment.
- 4. Managements need have a fear that foreseeable development from atomic energy will replace to

(Continued on page 24)



Simplified drawing of experimental breeder reactor operated by Argonne National Laboratory at its Arco, Idaho, testing station. The "EBR" has a very small reactor core about the size of a football, but extensive heat conversion equipment. Experiments may determine whether atomic power can be produced economically.



## **HOLIDAY FOR CUPID?**

A 10-year marriage slump will ease demand for housing

By Theodore H. Silbert

OT many business executives realize that the next eight to ten years will bring a decided e-emphasis on housing, home furishings and home appliances. That eatement is based on a survey, reently completed by our firm, mong 158 companies which manuacture and market building materials, home furnishings and electrial appliances. Yet the facts are lmost as crystal clear as a census eport. For example:

During the next 10 years there ill be considerably fewer marlages than took place in the last

0 years.

There will also be less pressure or new housing and a corresponding drop in demand for many roducts that go into homes and partments.

These facts, plus our survey reults, offer rather convincing evience that many manufacturers of ousing materials and home furishings and appliances who expect

The author is president of Standard Facors Corporation with offices in Chicago, ew York and Los Angeles. Standard Facors is a commercial finance company, dealing principally in accounts receivable fidencing and factoring. sales to remain at, or very near, the record high levels of 1948-1951 may be in for some unpleasant surprises. Many of these manufacturers believed that the market dip of last year and the spring of 1952 was temporary. The truth is, however, that smaller markets for such products will be with us for most of the next decade. Here's why.

#### The Postwar Boom

There were 34,949,000 households in 1940 and 44,564,000 households in 1951. This whopping, 28 per cent increase in the number of households gave the postwar business boom a big push. Ordinarily, 500,000 to 600,000 additional households would have been formed each year. But in 1947, the actual net growth was 1.6 million households; and in 1948, 1.4 million. This year it will be about 1.2 million.

In the last five years we have seen a net increase of about six million new households. This record growth has not only stimulated home building and the sales of every conceivable home necessity, it has also increased consumer credit and the demand for automobiles.

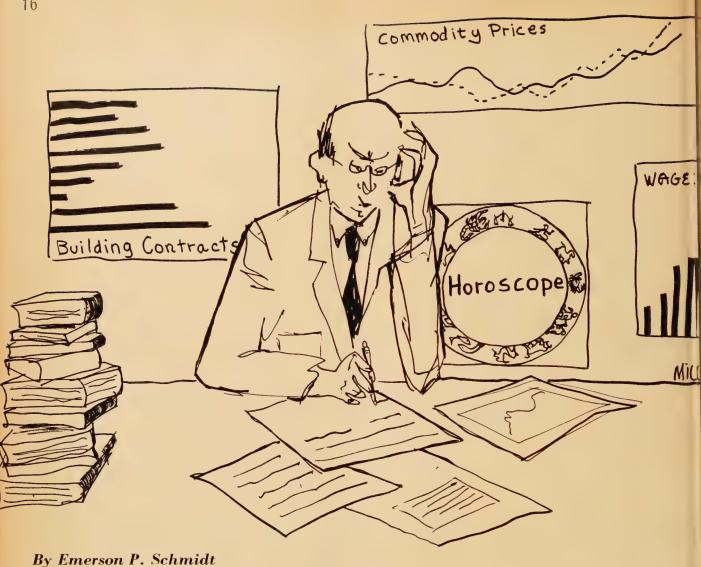
But will the creation of new households continue at this phenomenal rate? The answer is, "very probably no." Marriages, which, of course, are the fundamental stimulus for the creation of households, have dropped off sharply from their 1946 peak. Here is the record for recent years:

1940	 1,565,000
1946	 2,300,000
1947	1,992,000
1948	 1,815,000
1951	1,550,000

In marriages, we are thus below the 1940 level, and fewer marriages mean fewer households.

Furthermore, the number of people in the "most marriageable" age has also dropped, according to census estimates. Young folks who are now 20-24 years of age were born in the late 'twenties and early 'thirties — a period during which the birth rate was falling. During the next six years, the 20-24 year old age group will be about 10 per cent below normal expectations, according to census forecasts. By 1956, for example, there will be about a

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## Economics — in One Easy Lesson!

HERE IS A BEGINNING, AT LEAST, TO "ECONOMIC UNDERSTANDING"

AX PLANCK, one of the greatest physicists of all time, said that he could learn all the mathematics used and useful in economics in a couple of weeks, but that he never could learn to understand economics. A later critic has even improved on that quip, "Teach a parrot to say 'supply and demand determine price' and you have made an economist of it."

Perhaps the truth lies somewhere between the two. To get the most

The author is Director of Economic Research of the Chamber of Commerce of the United States.

out of economic understanding requires patient, persistent, and pervasive attention to an infinite array of facts and forces and their interrelations.

But it is not too hard to make a beginning. There is an important difference between business trends and economic trends. The former deal with production, sales, costs, profits, tax accruals, and so forth. Economic trends deal with underlying forces, basic causes, government policies and programs, political forces and political trends, union ideologies and demands, fiscal and monetary policies, bank reserv and bank lending trends, including such obscure matters as not on the interest rate but the interest rate structure, foreign policy, for eign exchange rates, foreign tracontrols.

In short, economic analysis is co cerned with all those basic force and factors which shape the eco omy rather than with specific co ponents of this or that business industry.

The nature of economic analy may be indicated by the dichotor reflected in the fact that, in t

930's, we were widely told that igh taxes were deflationary, and et today we are told that high ixes are inflationary. Was one or he other view wrong, or were both rrect? If the average businessman ad been asked in the 'thirties what ould happen to our economy if e had a 52 per cent corporate inome tax plus an excess profits tax, e would certainly have predicted estruction, unemployment, and ass misery. Are we today on the preshold of these dire conseuences? Again, is the recent steelage-price-increase fiasco inflationry or deflationary? Why is our conomy healthier or less healthy nan in 1929?

It is the job of economic analysis understand and explain. Everyne must be something of an econoist. The businessman demands mething more than facts and gures; he wants interpretation, asessment of trends, "the meaning of neaning."

The businessman is a doer, a nan of action. The economist is inlined to sit on the fence! The busi-



To understand the forces that shape business and our destiny it is . . .

nessman must get the facts as best he can, then make a decision and live with it. The economist, who always has something of the professor in him, says, "There is this to be said on this side of the question and that to be said on the other side." Then the bell rings!

Recently the chairman of a midwest university economics department sent one of his colleagues to the east to survey new methods of teaching economics. At one of the eastern Ivy League universities the economic department head told the midwest professor, "In this university we give students year after year the same set of questions in their final examination." The visiting professor scratched his head in bewilderment, until his host added, "Oh, I see what bothers you. Yes, we give exactly the same set of questions year after year - but we change the answers!" What's true in the short run may be completely false in the long run.

If, for example, the United Kingdom should suffer a meat famine, what would happen to the price of fish? The obvious answer, "it would rise." But in the long run, if labor and fishing gear are abundantly available and if the fishing industry is a decreasing cost industry, a meat famine might ultimately lead to lower-priced fish. This explains why economists and economic analysts don't always come out with the same answer. I try never to forget that the foremost economic expert in Siam was called Prince Dam Rong!

#### Role In Business

A decade or two ago one could count on the fingers of two hands the known economists employed by business. Today, most large manufacturing companies, the larger stores and retail chains, banks, insurance companies, many trade associations, and some local chambers of commerce have staff economists or employ them part-time.

A recent survey of 100 companies disclosed that about 36 employ one or more full-time economists, more than 20 retain an outside economist, and more than 50 subscribe to some packaged economic service. The business economist is an emerging profession because business executives feel the need of more eco-

nomic analysis and deeper economic understanding.

Now there is this to say about economists: they do not necessarily make good business administrators or even policymakers. Their greatest usefulness is in getting facts, and assessing the forces that operate upon a company, an industry, and the whole economy. Economists should be in an advisory capacity, a consulting capacity, rather than in an operating capacity. It might be added that a number of business economists who have come up through the ranks are outstanding business executives, and more and more companies are giving them the status and recognition of company officers.\*

Considering all the activities that

\*The reasons for and how to use economists in business were extensively explored in Business Management and Economic Analysis, Chamber of Commerce of the United States, Washington 6, D. C., 16-page pamphlet, 25 cents.

(Continued on page 23)



. . necessary to understand money, banking, credit, and fiscal policy"

## MEMO ON MARKETING:

Approach today's biggest business problem systematically with a check li

By Robert F. Elrick

SELLING is today's number one problem of American business. A decade of easy living for salesmen and sales managers has dulled the marketing techniques of thousands of companies. Now with competition stiffening in almost every field of enterprise there is a scramble to sharpen up, to reappraise, to plug the loopholes.

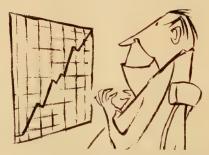
Recently our firm surveyed 200 large and small business concerns across the country in an effort to find out, specifically, what major marketing problems are currently on the minds of business management. We found that, boiled down, management is confronted with 27 major marketing problems.

Almost all companies realize that they are facing difficult marketing problems. We discovered that most firms, and certainly the successful ones, are systematically developing solutions to these specific problems. On the other hand we discovered that some firms apparently refuse to search for the facts and are merely stabbing in the dark hoping for a lucky hit.

The following is a discussion of these 27 important marketing problems and the efforts that progres-

The author is president of Elrick, Lavidge and Company, consultants in marketing research. sive firms are now making to solve them.

1. Economic Trends. A new economic trend, or technological development, if properly appraised and interpreted, can open the door to new business. It may suggest a new product, a new service, or a new mass market for present products. Or it may lead to new methods of distribution and selling.



". . . an economic trend can often open the door to business"

A marketing plan, based on sound economic trend data, can help develop economies that will reduce a company's cost of doing business. Most companies could well afford to appropriate more time to economic analysis.

2. Industry Growth. Some industries are in their infancy, some are in adolescence, others are in their "declining years." Since the war the

diesel locomotive has very near superseded the steam locomotibut some companies failed to gauthe effect of this technological velopment. They were caught we obsolete inventories. Even won they failed to develop a line products to replace the "iron hors."

What do you actually know about the growth potential of your inditry? Your company's future may in real danger if you do not ha long-range marketing plans bas on long-range thinking.

3. Potential Customers. The ul mate customer is the key to eve marketing problem. A bewilder manufacturer of industrial painti equipment once asked us to fi out why he was losing his regu customers. It was discovered th his so-called "regular" custom were merely buying his equipme while competitors' products were short supply. His loyal custom were in the institutional market which he wasn't trying to cultiva A revised marketing program, bas on this fundamental fact, has co pletely rejuvenated his firm.

How well do you know you ultimate customers? How and who do they buy? What causes them buy a particular brand or mailf you don't know the answers, taimmediate steps to find out!

## A CHECK LIST FOR TODAY'S MARKETING PROBLEMS

By checking this list of 27 common marketing problems, you can determine those which need immediate attention in your company, those which can be attacked during the next year, and those which require attention over the longterm future. Such an analysis provides a systematic approach to today's number one business problem.

*	
Economic Trends: How will economic trends	Sales Forecasting: How much will you sell next
and technological progress affect sales in your	year - in the next five years?
industry?	Sales Quotas: What sales goals should you
Industry Growth: How fast will your industry	shoot for?
grow in the next 5, 10 or 20 years?	
Potential Customers: What kind of customers	Sales Territory Design: Where should your sales territory lines be drawn?
ultimately buy your products and what are	
their buying habits and attitudes?	Sales Operating Cost Reduction: How can you
Marketing Activities of Competitors: What are	further reduce sales operating costs?
your competitors doing to get more business	Sales Channels: What kinds of wholesale and
and how big is their share of the market?	retail outlets are most profitable?
Market Expansion Opportunities: Where can	Personal Selling Methods: What can your sales-
you get more customers and how can you get	men do to make their sales efforts more pro-
present customers to use more of your products?	ductive?
Product Line Diversification: Will greater prod-	Sales Aids and Materials: What tools can you
uct diversification bring you new opportunities?	give your salesmen that will increase sales
Customer Product Requirements: What kind	volume?
of products or services do your potential cus-	Sales Training Program: What kind of a sales
tomers require?	training program would give you the best
New Product Possibilities: Which new prod-	results?
ucts and by-products would best fit your com-	Sales Compensation Plans: Should you have
pany's financial, production and marketing re-	straight salary, commission or both?
quirements?	Sales Personnel and Facilities: To reach your
Package Suitability: What kind of a package	sales objectives how many and what kind of
will give maximum utility, visibility and sales	salesmen do you need?
appeal?	Customer and Dealer Promotions: How im-
Product Names and Symbols: Which brand	portant are promotions to your business and
name is best and what kind of an identifying	what kind should you have?
symbol should be used?	Advertising Sales Messages: How can you com-
New Product Introduction: What is the best	pel prospects to listen to your sales story?
method of introducing a new product or service?	Profitable Advertising Media: Where shall you
Pricing Policies: What prices must you adopt	tell your story to reach the greatest number of
to meet your costs and the competition?	prospects?
Service Policies: What repair and parts service	Public Relations: What is a sound public rela-

4. Marketing Activities of Cometitors. Most businesses find they ave to dig, and dig hard, for the olid facts about competition. Deals, distributors and salesmen often ck the background information nd analytical ability to make an ccurate appraisal of the competive situation. A manufacturer of efrigerators, freezers and other

must be maintained?

Service Policies: What repair and parts service

utstanding performance. Yet a ibsequent survey revealed that the ompetition had boosted sales even ore sharply. In other words, the rize winning division was actually osing its share of total available

itchen appliances, for example, re-

ently cited one sales division for

usiness. Instead of an award the ivision manager should have been

old to go to work!

5. Market Expansion Opportunies. Henry Ford found that the way enlarge the auto market was to develop mass production methods and produce a car within the price range of the average man. The soft drink industry found that increased



". . . you have to dig for solid facts about competition"

competition and advertising expanded the market for all bottlers. Popcorn and food snack producers suddenly discovered that sales were booming in television areas, because viewers wanted to munch on something at home just as they did at the theater. There are good reasons why dentifrice advertising says, "Brush your teeth twice a day" - the market could be vastly expanded if everyone brushed his teeth just once a day.

tions program for your company?

Are you systematically looking for similar ways to expand your total marketing opportunities?

6. Product Line Diversification. Companies, like trees, rise from the seeds of ideas, but by the time they reach maturity many have allowed other companies to surround and succeed them. A progressive organization like General Mills, Inc. shifts emphasis years before it reaches the end of one product line. It develops new products, thereby

(Continued on page 41)



Suspended TV camera (above) enables Babcock and Wilson Tube Company worker to control the pouring level and check uniformity of billets in the casting of continuous steel billets in a company plant.

Industrial TV is growing every bit as fast as its glamorous studio forebear

## You, Too, Can B

HEN stockholders of Foo Mineral Company, meeting at the company's home officin in Exton, Pa., this year, were to they were going to be taken on extensive tour of the company properties, several older men the group of 200 sighed, why others glanced at their watch wondering if they could spare to time for a long inter-plant junks

Then L. G. Bliss, vice-presided in charge of sales, announced the the streamlined tour would be a complished quickly without anyon having to leave his seat. The suprised stockholders eased back their chairs, while Mr. Bliss too them on a tour of ore processialines in Africa, the company's natholdings in Kings Mountain, need that the Charlotte, N.C., and the Exterplant.

## Stockholders' Show

Watching 17-inch television 1 ceivers, stockholders saw the proessing of African lepidolite ores obtain lithium products to be use for special types of glass in the manufacturing of lubricants ar ceramics, the quarrying and pro essing of ores at Kings Mountai and finally ore processing open tions at the Exton plant. The saw close-up views of complex or erations and equipment used processing zirconium, which is use in radar, TV and jet engines, ar the processing of minerals to pr duce welding electrode coating materials.

The "tour" over, the stockholde burst into enthusiastic applaus. They had seen, in the words of M Bliss, how their invested dolla "have been translated into bric steel, mortar and machinery."

This unique presentation was a complished with the use of specitelevision equipment designed for industry, equipment which appear destined to play an important pain many phases of business in the near future, a role even as great that which broadcast television is playing in the home.

## a TV Star -- Industrial, That Is!

The presentation at Foote Mineral Company was handled by RCA Victor portable television gear, valued at \$80,000. Four large orthicon field cameras were set up in strategic and widely separated locations on the company's 81 acres. Twelve 17-inch receivers were placed in the cafeteria where the stockholder meeting was held, and a central control and monitor station installed in a nearby plant building. All pieces of equipment were connected by cable. Mr. Bliss sat in the monitor station supplying introductions and continuity to relate the sequences of the program.

#### Many New Uses

Production, pickup and transmission were handled by six RCA Victor engineers and two members of that firm's global television production crew, which have pioneered many new applications and made demonstrations of industrial television throughout the United States and even in foreign countries.

As Vice President Bliss said later, "Industrial television provides a unique means of showing stockholders what is being done with their money and how their investments are being protected and enhanced without wasting their time and energies and those of company officials in traveling. Further, it presents a dramatic vignette of a company's operations that is more

By R. W. Barrow

impressive and understandable than an actual plant tour."

The use of TV at stockholders' meetings is only one application of the versatile new medium in the business world. Industrial television has been used, or is being experimented with, in mining, steel proc-

essing, transportation, manufacturing, research, even in banking. The four major firms now manufacturing or experimenting with industrial TV equipment are RCA Victor, Allen B. DuMont Laboratories, Inc., Remington Rand Corpora-



Bank Teller at the Loyola Federal Savings and Loan Association in Baltimore checks signature on TV screen, flashed from camera located on lower floor of building where permanent records are maintained.

(Below) Baltimore and Ohio Railroad yard clerk records freight car numbers transmitted by television camera located in B  $\varpi$  O's Barr Yard at Ashland Avenue and 137th Street on Chicago's southwest side.





tion, and Diamond Power Special-

ty Company.

Diamond Power manufactures the "Utiliscope" camera, power unit and receiver, and reputedly has sold the most specialized TV equipment to business - primarily to electric utilities for watching water level gauges and the quality of smoke emitting from smoke stacks. The company holds that industrial television can be used "whenever it is too dangerous, too difficult, too expensive, too inconvenient, too inaccessible, too tiring, too far, too hot, too cold, too high, too low, too dark or too small to observe directly."

#### Can Use Color

Industrial TV differs from TV broadcasting, for one thing, in that it is private, not public communication. Image, plus sound, if desired, is transmitted to select viewers over direct cable, instead of being broadcast to a virtually unlimited audience. Among advantages are freedom from atmospheric and manmade interference, freedom from frequency bandwidth restrictions and other technical limitations imposed on broadcast television, and freedom to use color, whenever desired.

The equipment needed for industrial television may range from a single camera working with a single viewing monitor to many cameras working with many monitors placed in different locations. Diamond Power's "Utiliscope" installation, for example, consists of a camera, a small power unit and the monitor or viewing unit. The total package weighs 133 pounds. The camera picks up the image, which is transmitted by the power unit, through a cable to a monitor or viewer, usually located at a central control point often in a panel with other instruments.

RCA Victor's "ITV-5" equipment consists of a miniature camera, about the size of a home movie camera, and a light-weight monitor, with a 10-inch viewing screen. Du-Mont's latest equipment is a 10-pound camera, and a complete color system.

The varied applications of television in business and industry cover the fields of commerce and banking, industrial control and testing, medical applications, military

operations, law enforcement, and traffic control. DuMont, which has televised meetings of all kinds, says that under its inter-city plan, closed circuit\* facilities can be used to transmit any kind of meeting, particularly sales and advertising presentations, to out-of-town groups of salesmen, jobbers, retailers, and the like. DuMont says that in most cases, closed circuit presentations can be delivered on an inter-city basis for less than the normal travel and hotel bill that would be entailed in bringing a national organization to any central point."

Television has a place in retail merchandising, too, according to DuMont, which recently announced a line of color television equipment for industry, which it believes will be of great value in day-to-day merchandising. The system, known as TA-164-A, not only makes color identification of products possible, but makes small print and patterns, trademarks, and other identifying color combinations stand out in bold relief.

Among retail firms which have used television are the Jordon Marsh department store in Boston, which posts screens at strategic points showing such things as the latest fashions and home furnishings to lure shoppers to different floors and departments, and Wallachs, Inc., a New York chain of men's furnishings, which used TV for sales-promotion purposes recently in cooperation with RCA Victor and Frank H. Lee Co., manufacturers of Lee hats.

#### Signature Check

To show the possibilities of television in banking — for fast checking of signatures or important documents — RCA Victor recently installed a demonstration unit in the Loyola Federal Savings and Loan Association in Baltimore. By placing a camera where files and documents were kept and a receiver at a teller's counter, it was possible to transmit views of signatures and important documents to the teller in a matter of seconds.

Chicago's Commonwealth Edison Company, and the Northern Indiana Public Service Company at Michigan City, Ind., are amongs the many electric utilities usings television for remote observation of water level gauges. The State Line Station of the Chicago District Electric Generating Corporation uses television to check flue gas emission from smoke stacks.

#### Steel Mill TV

To control furnace operations, United States Steel Corporation has sinstalled TV units at its Geneva, Utah, plant. There, four "Utiliscopes" watch three furnaces and speed up the reheating of slabs. The equipment enables one man, located at a central point, to push steel slabs into three reheating furnaces, and eliminates the need for an assistant to help spot slabs as they move along a conveyor.

DuMont has pointed out that the steel industry presents "natural applications," especially for color television. Because color is vital in the control of blast furnace and other operations, color television can provide essential information to workmen, foreman, and, what may be more important, to top management. Also, with telephoto lenses, television could bring details of molten metals and fires much nearer to supervisory personnel than ever before.

Republic Steel Corporation at Cleveland uses a "Utiliscope" in connection with a scale and ladle crane operation to show an operator amounts of molten steel poured.

Timken Roller Bearing Company at Canton, O., has a TV installation to enable an operator seated before a control panel to control the flow of steel tubes through both furnace and mill. The camera permits the operator to view the entire operation from a point 80 feet away, to detect any signs of a pile-up, and to adjust conveyor speed in time to avoid one. TV has eliminated the need for a second man formerly required to unscramble tubes when they piled up.

Babcock and Wilson Tube Company at Beaver Falls, Pa., uses a "Utiliscope" to watch the casting of continuous steel billets for the purpose of controlling the level at the proper point to assure uniformity of billet quality.

Although few companies are pres-

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<sup>\*</sup>NOTE: For a detailed discussion of "Closed Circuit Television," see the April, 1951, Commerce Magazine.

## **Economics**

(Continued from page 17)

business organization executives and their staffs have to perform, sound economic analysis is no easy task. The best approach is to begin modestly, and this may be done in several ways. Economists from nearby universities and colleges might be retained on a part-time basis and given special research tasks. This is a particularly useful approach for finding out those individuals who might constitute timber for permanent employment.

The U.S. Chamber has prepared a guide called What's The Answer? - a brief introduction to sources of business and economic statistics, designed especially for the economic research beginner. It lists a number of "one-time" and annual, monthly, and daily publications. Of particular importance are the Statistical Abstract (annual, Department of Commerce), The President's Economic Report, and the Report of the Council of Economic Advisers (annual and midyear), Survey of Current Business (Department of Commerce), Monthly Labor Review (U. S. Department of Labor), Federal Reserve Bulletin (Board of Governors, Washington), Economic Indicators (Council of Economic Advisers) — to name only a few.

#### Leadership Role

Until a few decades ago the businessman was regarded as the leader in the community. He still has much of that acceptance so far as local community affairs are concerned, but the overriding importance of national affairs and particularly economic affairs has resulted in a lack in the preparation of many businessmen to exercise this leadership in terms of tough, serious, and complicated national problems. Just as formerly the business executive brought into his enterprise accounting experts, engineers, attorneys, so now he feels compelled to call on this new profession - the business economist.

The Freeman on December 31, 1951, made this comment on the changed situation:

"Few practical businessmen realize how economic and social ideas originate and spread, because they



# For the first time, Conway offers FREE STORAGE on fans with their 10 POINT SERVICE PLAN

This unique service takes off your hands the whole fan problem each season! Conway does the job better for LESS money because they have the volume, trained men and special equipment.

The 10 POINT SERVICE works in this manner — Conway picks up all your fans from location, cleans, lubricates, and repairs them in their shops. Your fans are completely dismantled, tested and adjusted to work properly — free from dirt and grit. Minor small parts are furnished. After repairing, your fans are stored in dust-proof cellophane bags until needed next spring — then delivered to your office or plant and relocated in original position.

All fans are insured against fire, theft or damage. Guaranteed to work properly for one year. If fan fails, we replace with loan fan during repair. All this for \$4.75 per fan up to 16", 17" fans and larger including pedestals — \$7.50 each.

NOTE: MAJOR REPAIRS on fans are NOT made without your authorization and FIRST quoting you the price.

We sell and service all types of electric fans and Air Conditioners. Our Customer list reads like a Who's Who of Chicago's leading companies and industries.

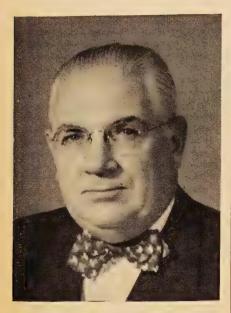
Let us figure the actual cost of servicing all your fans on this new 10 point program.

Take advantage of this bonafide offer!

## FACTORY AUTHORIZED SERVICE



## The Men Who Move The Goods



Clayton F. Devine, Traffic Director, Silica Sand Traffic Association of Illinois. President, The Traffic Club of Chicago.

Without silica sand, a sizeable part of U. S. industry would soon become idle. The giant glass industry would be unable to make such products as containers, electric light bulbs and automobile windshields. Manufacturers of enamelware, paints, steel castings, and silicate of soda, among many others, would be crippled.

From Illinois, leading producing state, silica sand is shipped to industries across the nation — and it is Clayton Devine's job to see that it is shipped swiftly and efficiently.

女 女 女

"The Wabash Railroad has done a better-than-excellent job for us for many years," says Mr. Devine. "In emergencies—for example, when we've needed extra covered hopper cars—the Wabash invariably comes through. It's great to work with people who really know how to meet your transportation needs."

**\* \* \* \*** 

There's no substitute for experience in transportation — nothing that takes the place of seasoned ability. When you ship by Wabash, you put your freight in expert hands. Ask your Wabash representative to see you!

P. A. SPIEGELBERG, Freight Traffic Manager St. Louis 1, Mo.



are not usually themselves students or readers. It is perhaps unrealistic to expect them to be. There is a necessary division of labor in society, and most businessmen have enough to do in improving their particular product to satisfy consumers, in reducing costs, and in meeting competition. But one result of the preoccupation of business leaders with their own immediate problems is that they hardly become aware of the existence and power of ideas-conservative or radical - until some legislative proposal that would destroy their business is put before Congress, or until the labor union in their own plant makes some ruinous demand. Then they are apt to think that this demand comes from the rank-and-file of the workers, and that it can be answered by some statistics showing the smallness of profits compared with wages.

But usually neither the assumed origin nor the assumed cure is correct. The demands come, not from the working rank-and-file, but from labor leaders following a suggestion thrown out in some college classroom, or by some radical writer and the practical business man, even though he knows the immediate facts of his own business, finds himself at a heavy

disadvantage in these controversible because he cannot answer, and perhaps is even unaware of, the general premises on which the contentions of those hostile is business really rest."

Here is a challenge of the firm order. If the business executive going to be articulate and persuasive, he must have help from his own economist and from his business organizations.

There is reason to believe tha economists have made sufficient progress in understanding the na ture and causes of the business cr cle so that the catastrophe of the 1930's need never be repeated. Then is also reason to believe that bus ness policies in terms of prices inventory, depreciation, new proof uct development, advertising, and so forth, can do a great deal to mitigate the extremes of economic fluctuations, but this requires total view of the company, of the industry, and of the economy. Ed onomic analysis by skilled minds can make a substantial contribu

Furthermore, such analysis can help to make the businessman an articulate, persuasive spokesman in the national interest. This is a challenge to every businessman to day.

## **Business Planning In the Atomic Era**

(Continued from page 14)

economic need for their respective products and services, as the electric light replaced the gas jet. Businessmen must remain alert, however, not to be caught with obsolete plants, processes, or products that place them in an untenable competitive situation.

Now for the second big question: New management problems arising from the utilization of atomic energy. Of course, the first and toughest problem is trying to forecast what is going to take place technically. But there are other problems that are more familiar to businessmen — such matters as plant and public safety, insurance, patents, public relations, shipping and waste disposal, worker education, and doing business with the government.

First, consider safety. When one

proposes the use of radioactivity by industry, the question of safety in the plant and for the general public is immediately raised. The important consideration, however, is that none of the proposed industrial uses of atomic energy contemplates placing radioactive materials in harmful quantities within the reach of the general public. Dangerous quantities must be confined to plants and laboratories where they can be handled under safe conditions by competently trained persons.

We now have several years of AEC experience in the safe handling of tremendous quantities of radioactive materials. The AEC and its contractors have established a wonderful safety record that proves beyond a doubt that radioactive materials can be safely used if ade-

uate precautions are followed. Cerainly the use of large quantities f radioactive materials in plants oses no more serious problems nan those present in some chemical rocesses. Safety procedures are vailable from the AEC, and, at resent, the AEC inspects plants sing radioisotopes and can withold isotopes from those not taking proper precautions. Probably his responsibility will eventually e assumed by state and local ealth officials.

Then there is the matter of inurance. At present, insurance overage for industries using radioctive materials has been absorbed n the general casualty rate strucure for the industry. A committee epresenting the insurance industry s considering the possible need for pecial procedures to be used in evaluating insurance risks for liability and property damage resultng from the large-scale use of adiation by industry. This seems o take care of the normal insurince needs of industry. Some companies are concerned, however, bout the need for public liability nsurance to protect against the catastrophic release of a large ource — say, if an explosion spread adioactivity over a wide area with narmful effects upon the inhabiants. So far as is known, no inurance has yet been written by a private company to cover such a alamity.

#### Patent Position

Next, patents. Under the Atomic Energy Act, inventions and disoveries of a non-military or delassified nature can become public property and available for non-exlusive licensing. This has caused ome businessmen to feel that reearch on matters involving atomic nergy is not a good risk, since the ompetitive advantage of patent protection is not assured. From a practical standpoint, however, the EC has been reluctant to exert its icensing power under the act exept when national security is obiously affected. This reluctance is effected in this statement from the ifth Semi-Annual Report of the ommission regarding non-military atents resulting from research with adioisotopes, "Inventions made in he course of work . . . (not financed by commission funds) on or with radioisotope compounds would be subject to patenting by the inventors in accordance with normal industrial practices and without any patent rights being reserved to the commission."

This policy has been followed since 1948, to the general satisfaction of industry. But regardless of the patent situation, probably the most important advantage to be realized from industrial research on the atom will be know-how.

The protection of know-how pre-

sents another problem, however. Under the Atomic Energy Act the commission apparently has the power to require reports of those doing research work using radioactive materials. In the isotopes program, the AEC originally reserved the right to require publication of any information obtained as a result of research using isotopes. As this program has grown and as private enterprise has entered the field of radioisotope research, this policy has been altered. As it now stands, the Isotopes Division pro-

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tects the know-how of the individual organization doing research using radioisotopes. They require only sufficient information to allow them to carry out their function of protecting public health. In the Isotopes Catalog, the Isotopes Division specifically states, "Reporting requirements will be applied so as not to interfere with an inventor's opportunity to obtain patent protection for his inventions and discoveries."

In practice, the AEC has been doing a commendable job in preserv-

ing industrial confidence. Businessmen should understand, however, that under present law no individual within the AEC can promise them permanent patent protection or immunity from reporting their research findings.

The use of radioactive materials in a plant also presents some novel public relations problems. The publicity given military aspects of atomic energy have the average citizen scared stiff of anything related to radioactivity. However, the

Stanford report makes this coment:

"The problem, then, is one of: orientation and education using positive approach to teach th radioactive materials can be usefvaluable, and safe. Such a plant attack is already being used succe fully by companies handling rade isotopes. In some instances, presem tion of such information as the fall that humans and all other forms life on earth are continuously posed to natural radiations of son type will be helpful. For examp persons living at high altitudes,, in Denver, Colorado, are contin ously exposed, without ill effects, cosmic rays in excess of the amount of radiation received by most woo ers in AEC production facilities.'.

Then there is the question shipping and waste disposal. Racactive materials, even in very lan quantities, are now being shipped about the country by rail, truck as air. The procedures for safe hadling are well developed, and posent no great problems.

#### Waste Disposal Problem

Waste disposal, on the oth hand, could present some serior problems to industry. The proble is one of finding a safe means f disposing of radioactive sources the have decayed beyond usefulness, bi still emit radiations that could harmful. At present, the AEC over sees and sometimes assists with the disposal of radioactive materials. Some such cooperative effort seem indicated for the future as a measure of public welfare.

Finally, dealing with the gover ment. The AEC is a rare bi among government agencies. It a complete monopoly of an entifield of technology, yet its admin tration has been distinguished -1 all-out use of private enterpris The best evidence of this is four in the fact that 90 per cent of the people working on the atomic ene gy program are not employes the AEC, but rather of private co tractors working for AEC. Further more, those who have worked wi the AEC as contractors have four the commission's methods exceptio ally businesslike and free of re tape.

Probably this is partially due the fact that the AEC is a relative



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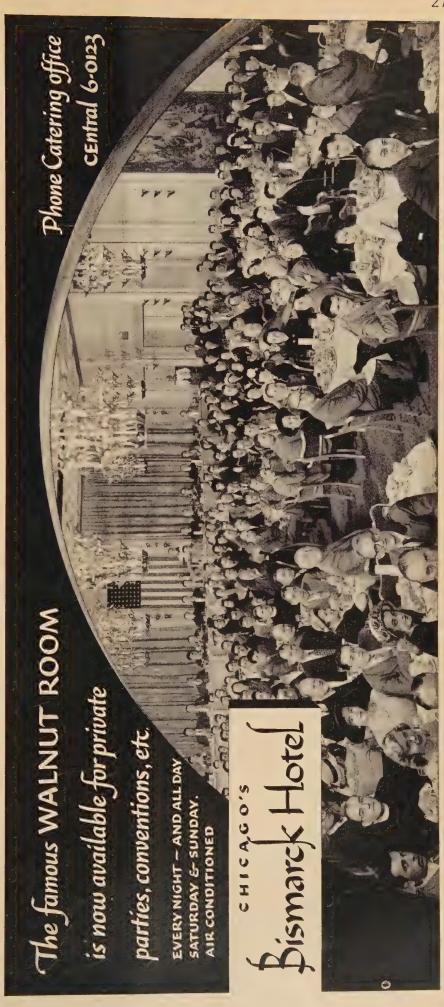
w agency. Also, the AEC has atcted commissioners and other key ployes of unquestioned ability. iese men, many of them new to vernment service, have made a l contribution to national wele by keeping the philosophy of vate enterprise alive in the huge d vital atomic energy program. In spite of a climate generally orable to business, there has en some impatience among busissmen closely associated with the C's program for peacetime beneof atomic energy to be made re quickly and generally availe. In fairness to the commission, must be observed that their first k is to keep the United States preme in the military applicans of atomic energy. Their precupation with this task has unubtedly made it necessary for acetime possibilities to take a ondary position.

#### Don't Wait On AEC

Nevertheless, there is plenty of idence that the commission is intested in the development of acetime industrial uses for atomic ergy. For example, in a recent k to the American Society of echanical Engineers, Commister T. Keith Glennan said:

Don't sit back and wait for angs to happen in the atom busiss. Continue to be impatient out the future and the enlargement of industrial participation on basis that will allow your commiss to earn a return on your effects commensurate with the risk by will make. And look for opertunities to take that risk. If you not do this, it is my opinion at you may well be witnessing the set step in the extension of governmental control over our basic dustries."

Then there is the recent estabment of an AEC office of Instrial Development. Dr. W. L. vidson, its director, says that his ace will concentrate on problems interest to businessmen. His office I take no part in dealing with a C contractors, but rather will dit its effort to assisting industry developing the industrial possiities of what Dr. Glennan calls "atom business." If any busisman wants to talk to somebody the commission about the inter-





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est of his company in atomic en gy, the Office of Industrial Dev opment is the place to start.

Whether we like it or not, t atomic age is here to stay. Wil it will come a choice selection new and difficult problems to chi lenge business management. It is safe assumption that several hu dred business organizations are no carrying on research programs volving some phase of atomic engy. When we see this activity as remember that the atomic energiate program is not yet 10 years of we can only include that the mo important business event of oc time may well prove to be to splitting of the atom!

The foregoing has been digested from speech delivered by the author on Septe ber 11, 1952, before the Seventh Nation Chemical Exposition in Chicago.

## Trends In Finance and Busines

(Continued from page 11)

even a bit more praesodyium, the years ahead – particularly if you are in the steel, aviation or eld tronics industries. This forecas comes from Dr. Clyde Williams Battelle Institute who believes the sizeable new markets for these an other "rare earths" may develop the result of recent discoveries large domestic resources of the tongue-twisting raw materials several western states.

In addition to the aforeme tioned, there are 12 other "ra earths" - cerium, promethium, ne dymium, samarium, europium, ga olinium, terbium, dysprosium, ho mium, erbium, thulium, and lute ium. Although now used in such is lated applications as cigarette ligh er "sparking" flints and super-br liant illuminators for movie proje tors and searchlights, the rail earths, according to Dr. Willian have been in limited availability h cause it has been difficult to ser rate them into pure form.

Dr. Williams points out that steel making, for example, a ti addition of certain "rare earth improves the resistance of the p mary metal to oxidation and corr sion at high temperature, increa strength and reduces impurities. A other new source of these raw ma rials is the atomic energy pile from which they emerge as by-produc

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# Invest in the Middle West

Reviews of Middle-Western Companies

by D. F. NICHOLSON

THE rise of International Minerals and Chemical Corporation in the last decade to its present position as one of the nation's fastest-growing and most progressive industrial firms is undoubtedly one of the outstanding demonstrations of the role played by management in determining the success of an enterprise.

In 1939, Louis Ware, a mining engineer and executive, was named president of the company. The company's past earnings record was poor. Sixteen cents a share had been earned in 1937, a year of good business activity generally, and less than one-half cent a share in 1938. The only dividend paid on the company's preferred stock since 1931 was \$3 a share in June, 1937, and huge arrearages had accumulated. No dividend payments had been made on the common stock since the company was recapitalized in 1923.

#### Recapitalized in 1942

In April, 1942, the company was recapitalized again to eliminate accrued dividends of \$93 a share on the seven per cent preferred stock and pave the way for payments on both the new preferred and the common. In the ten years that followed, International Minerals and Chemical paid dividends each year on both classes of stock, in aggregate amounts of \$3,933,200 on the preferred stock and \$14,103,413 on the common. In addition, \$24,763,-760 in earnings was retained in the business to finance the continued growth of the company.

Research and diversification have featured International Minerals and Chemical Corporation's progress under the present management. Although the company is a major producer of two of the three principal fertilizers, phosphate and potash, and the demand for fertilizer is expected to expand steadily for an indefinite period to enable the nation's farmers to meet the food and fiber needs of a growing population, International Minerals has not abated either its research activities or its diversification efforts. Instead, it has intensified them, and at the same time facilities for producing fertilizer are being greatly expanded.

#### Formed in 1909

The company was formed in 1909 as the International Agricultural Corporation to mine phosphate rock and produce mixed plant foods. Today International Minerals is the largest phosphate miner in the Western Hemisphere and is third in the domestic production of potash. The first venture outside the field of minerals or plant food came in 1942 with the purchase of the Amino Products Company of Rossford, Ohio. It is operated as the Amino Products Division. This division manufactures monosodium glutamate, which has become a widely used flavor-accentuator in processed foods and is also sold for home kitchen use as a companion to pepper and salt. More than 700 food processors now use glutamate, sold primarily under the trade name "Ac'cent," which the company produces in plants at San Jose, Calif., and Toledo, Ohio. The San Jose plant is now being expanded. The Amino division is also developing pharmaceutical products, including two materials that have shown promise in the treatment of heart and other degenerative diseases.

In 1951 two additional acquisitions were made that contributed to International's diversification. One was Innis, Speiden and Co., with



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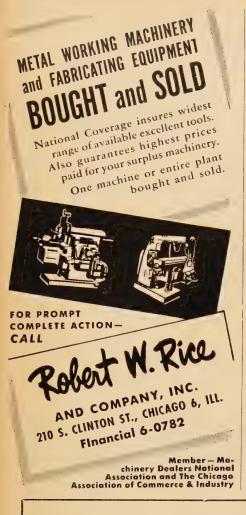


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plants at Niagara Falls and Jersey City, a manufacturer of chemicals and chlorine products and industrial waxes and gums. The other company acquired was Eastern Clay Products, Inc., engaged in mining, refining, processing and selling foundry bonding clays and refractory compositions, and bentonite, used in the drilling of oil wells in certain foundry and molding processes. Both companies were a c q u i r e d through an exchange of stock.

#### **Diversification Drive**

Thus International has added industrial minerals, a broader line of chemicals derived from potash, and the promising Amino products with their pharmaceutical possibilities, to its basic line of agricultural fertilizers.

Research at International Minerals and Chemical Corporation has involved the development of new products and improved production and materials handling methods, and has been greatly expanded in the last decade. A new general research laboratory was recently

completed at Skokie, Ill., and further research is carried on at Mulberry, Fla., and Woodland, Calif. A part of the company's research is being done under contract with the Atomic Energy Commission, and International has under construction at Bonnie, Fla., a plant that will produce uranium as a by-product.

Extensive phosphate mining properties are owned in Florida, Tenenessee, and in the northern Rockyy Mountain area, while at Carlsbad, N. M., large reserves of potash ores are owned. The company has a standard plants, and 11 mines. Expenditures on construction aggregated \$10,059,531 in the 12 months and June 30, 1952, and there are current commitments for additional construction totaling approximately a standard plants.

Sales climbed 28 per cent in the 1951-52 fiscal year to a record high at \$84,570,447, as compared with \$66,257,884 the preceding year, continuing a record of uninterrupted gains for more than 10 years. Tonnage records were established in the production and shipment of phos-

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phate from Florida and Tennessee. The demand for potash for agricultural purposes required not only capacity operation by International and the entire industry, but also the importation of several hundred thousand tons of potash salts. The company's entire potash production for the year to end June 30, 1953, has already been sold.

#### Peak Earnings

Earnings for the 1951-52 fiscal year were at a new peak, but only slightly above the previous year's figure. Net income was reported at \$6,653,251, equal to \$2.90 a share on 2,161,511 common shares after allowing for preferred dividends. This compared with net of \$6,514,-130, or \$3.06 a share on 2,000,000 shares, earned the year before. The annual report for the 1952 fiscal year explained that operating margins were narrowed by increases in costs without compensating advances in product prices, by the need for obtaining some materials from other than normal sources, and by the unavailability of some materials in required quantities so that other materials had to be substituted at higher costs.

Following is a comparison of net sales, net income, and earnings per share of common, for the fiscal years 1942 to 1952, inclusive:

Years ended		*	Per Sh.
June 30	Net Sales	Net Earnings	Com.
1952	\$84,570,447	\$6,653,251	\$2.90
1951	66,257,884	6,514,130	3.06
1950	58,402,180	5,776,660	6.80
1949	53,294,760	5,421,017	6.36
1948	50,123,269	5,016,028	5.85
1947	41,302,250	3,826,992	4.35
1946	34,373,106	2,925,657	3.92
1945	30,301,091	2,038,169	2.76
1944	27,348,667	2,016,037	3.11
1943	22,477,375	2,081,738	3.61
1942	18,122,891	1,660,404	2.71

\*After preferred dividend requirements, and based on following common shares: 1952, 2,161,511; 1951, 2,000,000; 1950, 791,870; 1949, 790,305; 1948, 789,780; 1947, 788,155; 1946, 646,346; 1945, 594,466; 1944, 521,623; 1943, 467,374; 1942, 467,279.

Capitalization as of June 30, 1952, consisted of a term loan of \$11,350,000 maturing serially until 1964, \$625,000 of notes payable, 98,330 outstanding shares of \$100 par value cumulative preferred stock, and 2,161,511 shares of \$5 par value common. In July, 1952, the company issued 40,834 shares of common in exchange for all outstanding stock of the Hoover and Mason

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Initial dividends were paid of the preferred and common stocks in 1942 and have been continued in each succeeding year. Payments on the common, adjusted to reflect the distribution of a 100 per cent dividend in stock in December, 1956 were as follows for fiscal years: 1953 and 1951, \$1.60 a share; 1950, \$1.10 1949, 95 cents; 1948, 80 cents; 1947 65 cents; and 1943 to 1946, implication of the common stock in December 1946, implication of the control of

Total assets of International Mimerals and Chemical Corporation amounted to \$86,195,953 on June 30, 1952, against \$76,279,771 a year earlier. Fixed assets totaled \$51,1737,405 after deducting depreciation and depletion reserves. Current assets of \$33,044,730 compared with current liabilities of \$5,165,6361 Cash alone totaled \$11,142,263, and receivables amounted to \$7,048,738. The common stock equity per share was approximately \$27.40.

## Here, There and Everywhere

(Continued from page 8)

the job. In most cases, no prospects are ever brought to see his 'model' home and no commissions are paid to him."

• TB X-ray Program Grows-Over 293,000 Chicagoland residents were screened for tuberculosis during the first six months of 1952 in units operated by the Municipal Tuberculosis Sanitarium and the Tuberculosis Institute - the Christmas seal organization. This figure represents about 47,000 more than were X-rayed during the same period last year. The number X-rayed free of charge under this program in 1951 totaled 526,431 - an average of more than one X-ray for every minute of the year. It resulted in the discovery of 8,935 suspect cases of TB. Beginning in November, the X-ray program will be carried out in industry with mobile equipment moving from plant to plant.



## Industrial Developments

. in the Chicago Area

NVESTMENTS in industrial plants in the Chicago area totalled \$22,979,000 in September compared with \$14,889,000 in September, 1951. Total investments for the first nine nonths of this year were \$167,253,-000 compared with \$266,378,000 in he same period in 1951. These igures include expenditures for the construction of new industrial plants, expansion of existing buildings, and the acquisition of land or buildings for industrial purposes.

- Standard Oil Company of Indiana has applied for a certificate of necessity for the construction of a fluid hydroformer unit at its Whiting refinery. The company has started construction of a products oipe line to the Detroit area with a daily capacity of 49,000 barrels.
- Abbott Laboratories, North Chicago, is building a one-story structure on the tract of land recently ourchased at Skokie and Buckley Roads. The building, which will contain 300,000 square feet of floor area, will be used as a warehouse. Naess and Murphy, architects; Carcoll Construction Company, general contractor.
- H. M. Harper Company has peen given a certificate of necessity or an expansion of its plant for he output of precision fasteners.
- Nottingham Steel Company, 6921 S. Western avenue, has apolied for a certificate of necessity or a steel warehouse building at 8th street and Aberdeen avenue.
- Royal Continental Box Company, 2214 W. Fulton street, has ourchased approximately four acres of land at 13th street and 47th avenue, Cicero. The company will contruct a 75,000 square foot building

on the site. The company makes corrugated and wooden boxes.

- Standard Steel Spring Company is constructing a factory building at its present location in Gary. Abell-Howe Company, general con-
- The Wall Street Journal, 12 E. Grand avenue, has purchased the three-story and basement building at 711 W. Monroe street to which it will move its Chicago facilities. This plant will be used to publish the midwest edition of the Journal and will be midwest headquarters of Dow Jones and Company, publish-
- Standard Coil Products Company, 2329 N. Pulaski road, is expanding its Melrose Park plant by the addition of 75,000 square feet of floor area with the addition of a one and two-story structure. J. Emil Anderson, general contractor.
- Walworth Company, 319 W. 40th place, manufacturer of valves, fittings and other plumbing supplies, is building a warehouse at 3100 S. Kilbourn avenue. The building will contain 55,000 square feet of floor area. Campbell-Lowrie-Lautermilch, general contractor.
- Chicago Molded Products Corporation, 1020 N. Kolmar avenue, has purchased approximately 52,-000 square feet of land at 2713 N. Normandy avenue on which it will build a branch factory. The company manufactures plastic items. J. H. Van Vlissingen and Company, broker; J. Emil Anderson and Company, general contractor.
- Central Solvents and Chemical Company, 2545 W. Congress street, is erecting a plant at the northwest



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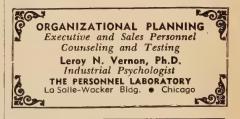
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corner of Flournoy and Maplewood streets. The company makes chemic cals used by the paint, varnish and lacquer industries.

- Streamlight Trailer Company has purchased the building at 319 W. 40th place in the Central Manufacturing District. L. J. Sheridan Company, broker.
- Underwriters Laboratories; Inc., 207 E. Ohio street, has pure chased a tract of land which was formerly owned by the Illinoisi Brick Company at Dundee road and Pfingsten road northwest of Northbrook. A few buildings on the property will be used temporarily by Underwriters for research pure poses, but a new plant will not be built for several years.
- **Budd Company**, Gary, is making an addition to its plant containing 27,000 square feet of floor area.
- Skolnick Drum and Barrele Company, 1102 S. Fairfield avenue, is constructing a one-story brickly building containing 16,000 square feet of floor area at 49th street and Knox avenue. Fridstein Engineering Company, engineer.
- **Do-Ray Lamp Company**, 1458 S. Michigan avenue, is constructing as warehouse at 1468 S. Michigan avenue. The two-story structure will contain 17,000 square feet of floor area.
- Riley Printing Company, 732. W. Van Buren street, has purchased the building at 701 S. Halsted street. The plant contains 20,000 square feet of floor area. Bennett and Kahnweiler, brokers.
- Glidden Company, Soya Products Division, 1825 N. Laramie avenue, is expanding its Lecithin building. Lecithin is a soybean product used in the baking and candy industries.
- Mayfair Molded Products, 465 N. Elston avenue, manufacturer of rubber grommets and molded plastics, is constructing a plant in Leyden Township near Franklin Park.
- Brunols Wood Craft, 7001 N. Milwaukee avenue, Niles, is building a factory at 8016 Ridgeway ave-

nue, Skokie. The plant will contain approximately 10,000 square feet of floor area.

- Linde Air Products Company is expanding its East-Chicago plant by approximately 11,000 square feet.
- Tenak Products Company, 2615 N. Paulina street, has acquired land at 1750 W. Wrightwood avenue for future development. The company makes electrotypers' supplies.
- Pepperidge Farms, Inc., 111 East 13th street, has begun construction of a baking plant in Downers Grove. The building will contain 50,000 square feet of floor space.

## **Holiday For Cupid**

(Continued from page 15)

million fewer of these young men and women.

Our survey further indicated that many businessmen still believe there is a serious shortage of housing, and that vast numbers of newlyweds live with in-laws and are seeking their own dwellings. Even if marriages decline and the number of households diminish, these executives feel there are still large numbers of young couples avidly searching for their own housing.

True, there was a postwar boom in marriages and many of these couples were delayed in getting into their own home or apartment. But are many couples still seeking their own housing?

Looking backward, it is clear that the record number of marriages in 1946 — a total of 2,300,000 — did put tremendous pressure on housing. By 1947, a record 8.6 per cent of our married couples were living with in-laws or friends — a considerably larger percentage than is normal, as the census figures indicate:

% of married couples without own household

1930 \_\_\_\_\_\_\_ 6.1 1940 \_\_\_\_\_\_ 6.8 1947 \_\_\_\_\_\_ 8.6

But by 1950, the census found that only 5.6 per cent of married couples were still without their own households — a record low! The couples kissed their in-laws goodby in 1948 through 1950, and set up for themselves. This seems further



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F. H. Rockwell, Gen. Freight Traffic Manager Santa Fe System Lines Chicago, Illinois proof that we will see less new households being established in the next decade. Whereas the net indecrease in new households was about 450,000 annually during the last decade, indications are that no more than 100,000 to 200,000 new house holds will be added annually for the next eight to ten years.

## Diversification Needed

Thus it appears obvious that ifi producers of housing, home furnishings and electrical appliances wanti to maintain their dollar volume, they must diversify in order to take in fields other than their particular specialty. Building material producers will have to emphasize repair and remodeling. Producers of household furniture must cast about for other items which do not goo into the home. Manufacturers of electrical appliances have two choices: household items which area far from saturation, and industrial products.

On the bright side there is the fact that there is no scarcity of purchasing power. Here, for example, is the way consumer savings have risen:

		Savings	
1949		\$ 6.3	billion
1950		10.7	billion
1951		17.2	billion
1952	(annual rate)	17.5	billion

Business spending for capital construction and equipment is also at record levels. The latest estimates of the Commerce Department and the Securities and Exchange Commission not only indicate that total capital expenditures will top 1951 but that the capital boom will have a broad base, extending through practically all industry. All of which means that those manufacturers who have specialized in home equipment, now have an opportunity to diversify their lines for the industrial market.

This adjustment on the part of all building materials manufacturers, on the part of the household goods and household electrical appliance producers, does not have to be made overnight, since the anticipated contraction will not be that rapid. But the necessity of the adjustment appears in the cards, and requires careful long-range planning to meet the problem adequately.

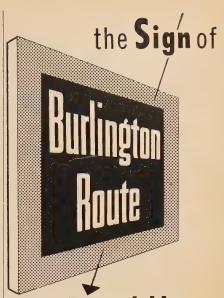
# ransportation

# and Traffic

THE Chicago hearing in I. & S. No. 6013, Pick-up and Delivery harges in Official Territory, conluded September 11. During the our day session approximately 40 hippers testified in opposition to ne proposal of the eastern railroads o cancel free pick-up and delivery ervice in Official Territory. Under suspended tariff, filed to become ffective June 23, 1952, the railroads ttempted to apply additional harges ranging from 10 cents to 35 ents per 100 pounds for pick-up nd delivery service performed in Official Territory. The 35 cent harge would be applicable at Chiago. Testifying on behalf of the Chicago Association of Commerce nd Industry, traffic director A. H. chwietert said: "It has long been he established policy of our Assoiation that rates and charges asessed by transportation agencies nust be sufficient to permit the gencies to furnish adequate and fficient transportation service and hat each class of traffic must pay ts own way. It is our view that inder a competitive transportation ystem, such as that which exists oday, adequate compensation from ach class of traffic is necessary in rder to provide that class of traffic vith the kind of service needed by he shipping public. This policy hould not, however, be interpreted s meaning that each class of traffic nust contribute exactly the same mount toward overhead or profit. t may frequently be necessary for ome classes of traffic to pay less han their full share of the amount eeded above the out-of-pocket cost f performing the service. If such n adjustment is necessary in order hat traffic may move freely then, n our opinion, it should be made o that revenue therefrom will make he greatest contribution to the naintenance of an adequate and

efficient transportation system." Mr. Schwietert continued: "It is our view that the proposal of the respondents in this proceeding to assess additional charges for pick-up or delivery services, which vary as between different communities served by the carriers and which permit an alternative use of stationto-station rates, is not in the best interest of the shippers or the carriers. It is also our view that the proposal will result in a further diversion of traffic, in increased costs to the carriers and in unreasonable and discriminatory charges to the shippers." The final hearing in the proceeding is set for October 14 in Washington D, C.

 Examiner Finds Distribution Rates At Chicago Lawful: In his recommended report and order in Docket MC-C-1191, Local Cartage National Conference v. Middlewest Motor Freight Bureau, Inc., et al., Interstate Commerce Commission Examiner Stephen A. Aplin finds that motor common carrier rates applicable in connection with distribution service at Chicago and St. Louis are not unlawful in violation of Section 216 of the Interstate Commerce Act. He further finds that the evidence fails to establish that the rates, rules, charges and regulations of the carriers are such as to prevent them from fulfilling their obligation to provide safe and adequate service, equipment and facilities or that their practices impair safe, adequate, economical and efficient service. The proceeding grows out of a complaint filed in September, 1950, by the Local Cartage National Conference, charging that rates of motor carriers for distribution service at Chicago and St. Louis, applicable in connection with line-haul transportation by the same carriers, were not compensatory and



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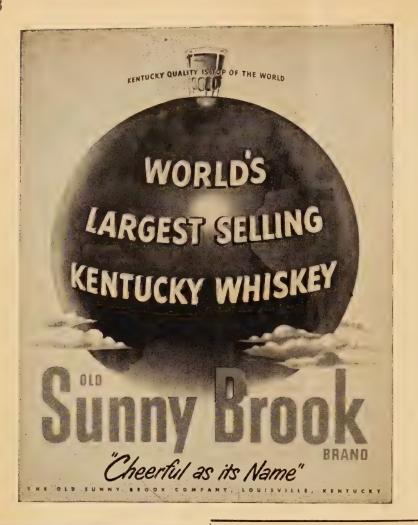
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created unfair and destructive competitive practices, and that the local cartage carriers were unable to meet competition of that nature. The Chicago Association of Commerce and Industry intervened the case in support of the deferrants.

- C.A.B. Authorizes Continuan of Directional Air Freight Rate The Civil Aeronautics Board, in findings in Docket No. 1705, a thorizes indefinite continuance experimental directional air freigg rates which are lower than to minimum rates previously pro scribed. In its report of April 1 1950, the C.A.B. found that much greater amount of freight w carried from east to west and from north to south than in the opposis directions" and that this "unbo anced movement of freight resulted in a substantial amount of unuse freight space on return flights from the west coast to the east coast and from south to north This backhaul problem, the boan found, was a critical factor limitin the growth of air freight.
- Midwest and Transcontinent Motor Rate Hikes Suspended: TF Interstate Commerce Commission has suspended proposed increases i motor carrier rates into Middlewe and Transcontinental territorie Under I. & S. M-4414, Middlewe Commodity Rates, the commission blocked a proposed general increas in commodity rates published in taiffs of the Middlewest Moto Freight Bureau. In its order i I. & S. M-4416, Transcontinenta and Western Increases - 1952, th commission suspended an increase of approximately nine per cent i class and commodity rates publishe in tariffs of the Rocky Mountai Motor Tariff Bureau, Inc.

#### Industrial TV

ently using television for production or assembly line control, the field offers great opportunities. I watching feed lines and assemble conveyors, television would permit a dispatcher to spot impending production delays before they occur and take preventive action. Be watching any number of remot production points, a dispatche could detect shortages before the

came serious, straighten out pileos while they are still small, and direct misdirected materials quick-This use of television, by en-

bling the production manager to ndy assembly line pace and meth-Is from a distance, could also conbute to improved production ethods.

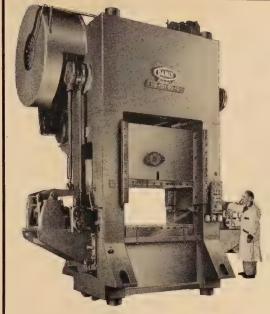
RCA Victor recently attracted onsiderable attention with a series tests at the Barr Yard of the altimore and Ohio Railroad, near lue Island, Ill., to determine the asibility of TV in railroad operaons. The company conducted tests esigned to determine the feasibily of using television to inspect eight car running gear, to read ar numbers from inbound freight ars, and to oversee general yard perations from a yard tower.

Although the tests were prelimhary and more thorough tests are et to be conducted, they indicate nat use of television in connection ith certain railroad operating roblems is practical. One railroad, he New Haven, already reportedly lans to install cameras at 14 staons along its tracks to watch for otboxes.

#### Place in Mining

Industrial TV may even have a lace in mining. RCA Victor has xperimented with an installation n one of the huge drag-lines of ne Hanna Coal Company. In strip nining it is important that the novel or bucket of the drag line ike its full 50-cubic-yard capacity ith every bite. The television inallation, with a camera on the oom and a monitor in the cab f the drag line, enables the operaor to know when his shovel is lled to capacity, something which e ordinarily cannot determine himelf because of the huge size of his quipment.

These are but a few of the many ses to which television has been ut or may be put in commerce nd industry. Industrial television fers "unfathomed potential" in asiness and industry, in the words the industrial television manufacrers, who believe that science and dustry can find many uses for a evice which can transmit an inantaneous picture, in black or hite or color, of nearly anything er nearly any distance.



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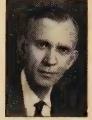
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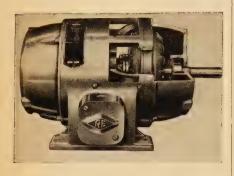
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# **New Products**

#### Automatic Gas Cut-Off

In the gas supply line of the average home there is a cut-off valve just in front of the meter, but in the event of fire and a melted meter that valve, of course, stays open. As a precaution against this hazard, the Kelly Safety Device Company of Cleveland has come up with a new gas cut-off valve containing a fusible plastic link that distorts at about 165° F., in turn forcing a tension spring to close the valve and thus prevent the discharge of gas from a melted gas meter. The automatic valve requires about 21/2 minutes to close after its heat limit has been reached.

#### New Diesel Engine

Caterpillar Tractor Company, Peoria 8, Ill., has introduced a new high-speed Diesel engine in three models for industrial, electric and marine applications. The basic engine has six cylinders, a 51/8-inch bore and 6-inch stroke. Pumps are mounted directly adjacent to the cylinders they serve, and thus fuel lines are short. Pumps, as well as intake and exhaust valves, are actuated by a single camshaft.

#### Airplane Tires

The first tubeless tires for aircraft use have been developed by the B. F. Goodrich Company, Akron. The new tires are said to assure safer high-speed take-offs and landings, reduce overall weight of an aircraft, simplify assembly, and provide more uniform inflation pressure.

#### Portable Controller

Taco West Corporation, 525 N. Noble Street, Chicago 22, has introduced a portable temperature controller designed for intermittent use at different locations in a plant. The instrument is plugged into any wall outlet; then by simply inserting the controller's thermocouple into an oven, bath, thermocouple

well, etc., the temperature is show by one pointer and may be controlled at any desired point I setting a second pointer. Two power outlets enable the instrument to control blowers, fans and agititors, as well as temperature.

#### Versatile Metal Tool

A small bench-top tool that punches, shears, forms and rived metal parts has been placed on the market by Albert J. Tatu Company, Williamsville 21, N.Y. Disigned especially for hobbyists craftsmen and repair shops, the in-1 tools sells from under \$10.

#### New Sump Pump

A submersible sump pump for home use which is said to provide complete protection against flass floods or backed up sewers has been developed by Fairbanks, Morse and Company, 600 S. Michigan Ave. Chicago. The chief feature of the new pump, in addition to its automatic operation, is the elimination of exposed floats and rod above floodlevels. Furthermore, the motor case be completely immersed in water with no effect on its operation.

#### Anchoring Improvements

New pipe bolt and eye bolt ar choring assemblies said to provid 50 per cent greater anchorage fo pipes and guy wires attached to masonry have been introduced b the Super-Grip Anchor Bolt Com pany, Inc., Philadelphia 40, Pa. Th assemblies consist of the pipe or ey bolt, lead sleeve, and a cup-shape steel anchor. After being inserted in masonry, the lead sleeve as well as the steel anchor are mushroome into the walls of the hole with special tamping tool. Thereafte the steel anchor reinforces the leasleeve for permanent anchorage.

#### Handy Magnet

A powerful, little magnet tha looks like an ordinary fountain pe

s been placed on the market by cheral Scientific Equipment Comny, Philadelphia 32, Pa. An endob on the pen-like magnet conols the extension of the tip as ell as the strength of the magnet. the company believes the new oduct will be especially useful in moving steel or iron particles om delicate mechanisms, from ard-to-reach places, and even — in linter form — from one's skin.

#### ghtweight Aggregate

A new construction material, ade-named "Kanamite", has been veloped after a four-year research fort at Armour Research Foundaon, sponsored by the Kanium orporation, 332 S. Michigan Ave., nicago. The material consists of ny glass balloons, about the size sand grains, which are made by owing up in dividual grains of ay in a special furnace. Concrete ixes using the new material in ace of sand or other aggregates e said to be very fluid, though ater content is low. Furthermore, ch mixes can be pumped through bber hoses, thereby saving conruction costs. The material is said be exceptionally strong so that inner coatings of "balloon" plaster n be applied on walls.

#### Memo on Marketing

(Continued from page 19)

eserving itself through successive enerations of customer-accepted erchandise.

Product line diversification has ur basic objectives: (1) to achieve ore efficient marketing by increasing sales, reducing costs and satisfied the demands of both the distribution channels and the ultimate stomer; (2) to promote stability earnings by eliminating seasonal did cyclical slumps and hedging ainst a declining demand for esent products; (3) to utilize fully company's capacity, its research scoveries and its manpower and to take full advantage of instance of the season of the stable products.

7. Customer Product Requireents. Consumers' tastes for clothg, furniture, amusements, and the e are constantly changing. Retirements of industrial buyers ange from week to week. The



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NN-B-601b LLL-B-631c NN-B-591a MIL-B-2427 JAN-P-132 MIL-C-11133 Wirebound Crates - Domestic (QMC)

**Wood Export** Wirebound Export **Wood Domestic** Wirebound Domestic Cleated Plywood - Domestic JAN-P-105A Cleated Plywood - Export Fibre Corrugated - Domestic Fiberboard, Wood, Cleated Wood Ammunition Boxes Wood Crates - Unsheathed

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oblem is to anticipate or, at least, ep abreast of consumer product reference trends. Alert manufacters can plot such trends and in any cases predict with amazing actacy the future desires of their stomers. Your future sales will determined, in large measure, by the trend of your customer's retirements today. Do you know ough about these needs to keep ur product line up to date?

8. New Product Possibilities. A und new product should have ese features: it can be sold through ur present selling organization; will use your present machinery, uipment, and technical skills; and promotion will be within your nancial limitations.

But there are other consideraons, as well. A proprietary drug anufacturer, for example, develbed a startling new denture cleansin his well equipped laboratory. It first, it appeared perfect for e company, but before appropriatg development money the manrement wisely ordered a thorough vestigation. It then developed at the total possible market for e new item was actually so small and the profits so limited that it as not worth the investment in the new item was actually so small and the profits so limited that it as not worth the investment in

9. Package Suitability. Your packe must provide maximum utility, sibility and impressionability to ve your product a competitive adntage. You will want to pre-test w package designs with new deces that have been developed to d out how customers really react a package. These tests will dermine how they measure up on e three basic criteria before insting in plates, printing or packing machinery. Check-lists are ailable, incidentally, against nich you can judge new package signs. They enable you to give rection to your package designer thout inhibiting his creative abil-

10. Product Names and Symbols. Indreds of excellent products are uggling under the handicap of brand name that is difficult to id, impossible to pronounce or ich suggests an entirely different of product. Yet, companies go spending money promoting a ak name that will never achieve eximum brand identification. Suitable brand names for almost

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any product can be uncovered through relatively simple brand name tests and experiments. The boom in self-service stores has greatly increased the importance of brand names. A distinctive, yet simple, brand symbol can increase package visibility and brand identification and also tie advertising and promotion to the all important "point of purchase."

11. New Product Introduction. The marketing strategy used to introduce a new product into a test market may determine its success

for years to come. A regional canned meat producer desiring to open up several new market areas investigated them and found certain use and buying habits for consumers of this type of product. As a result the canned meat product was sold with a box of macaroni, a deal that proved very successful because it induced many families to sample the combination offer.

Before entering a new market, it is wise to experiment with different types of sales outlets, display material, salesmessages and advertising media. What may be highly to cessful in one market is often "dud" in another.

12. Pricing Policies. The edishment of pricing policies top management function. Decides should be reached only after case consideration of all the facts of cluding factory production of sales costs, profit margins, comparitive prices, standard trade discontive price maintenance practices credit terms. Are your pricing cies kept up to date to meet the changing requirements of too business conditions?

13. Service Policies. A sound ice policy is a highly valuable a for it can insure future saless many industries, a well organi service operation is a revenue: profit producing department. many companies overlook the ice opportunities in their hasts capitalize on new sales. It is to secure an unbiased appraisa your service operation and an an sis of its future potentials. Your want to know where service fif ties must be maintained to produce maximum marketing advantage each sales territory, and how m "free service" must be offered to competitive. You will want to k if your warranty policy has the ceptance of your customers and not, what should be done to prove it. Take advantage of information your warranty c provide to check your consu sales trends to find out who is ing your product and what so or models move best.

14. Sales Forecasting. Relia: sales forecasting is the key to: keting. It sets the planning salesmen's salaries, bonuses, spo sales promotion, advertising out plant production schedules, a total financial requirements. The is no crystal ball for predeter: ing sales. However, given neces facts, it is usually possible to duce an estimate that will b reasonably accurate and adeq guide for company operations you do not now have a satisfac sales forecasting procedure should take immediate steps to tablish one.

15. Sales Quotas. Yearly sales goals, as well as individual and trict sales quotas, should be bon forecasted sales opportunity you are not giving your sales

# Remember-



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otas to "shoot at," you are ignorg a proved sales stimulator.

16. Sales Territory Design. A esman's efficiency is greatly inenced by the characteristics of sales territory, but too often ritories are created by simply awing lines along political bounries. Unfortunately, markets for oducts do not follow political tterns. For example, if one man rmally covers the Chicago market u probably will want to assign n the Gary and Hammond areas Indiana.

17. Sales Operating Cost Reducn. A thorough analysis should be ade of all the elements contribuig to sales costs. A control sysn should be set up so that each st element will come up for reew at periodic intervals. Only by nstant inspection can you hope keep your sales costs at a miniim. A soap manufacturer, who lows this practice, is constantly ding new ways to cut distribun costs.

18. Sales Channels. Are you satisd that your products are being d through the right kinds of stribution channels? Perhaps you ould be selling directly to dealers even directly to consumers. After recent investigation, a kitchen nge manufacturer found that his actice of selling to dealers in ne areas and through wholesalers other areas was causing nothing t trouble - he could not be fish d fowl at the same time. Hence, is important to determine ether you are utilizing the best annels for your product.

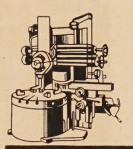
19. Personal Selling Methods. An alysis of the personal selling ethods of one organization dissed that the most successful salesen used certain sales appeals; the orest seldom used these appeals. unbiased survey of your salesn's operations might answer ny questions that have been in ar mind for years. If such a surincreases sales just five or ten cent you have made an im-

ctant step forward.

20. Sales Aids and Materials. Ofthe tools that are given salesn are created by men who have er sold or who have been sitting aind a desk for 20 years. They y be a long way from satisfying real needs of the man who must ke the contacts. A few dollars nt in experimenting with new

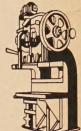
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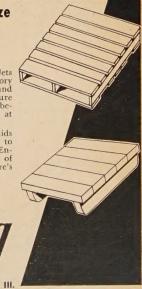
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sales tools under actual sales contions can pay big dividends.

21. Sales Training Program Every business organization shoo have a sales training program. a small company the program mil well be very informal. Larger co panies will want to establish de nite sales training policies, forr programs and may even require sales training director. In oth words, the program should be to ored to specific needs. The reas many companies do not have a sas training program is because ma agement has never been able to fif the time to set one up. These firm would do well to hire the servi of an organization that specialis in developing sales training po grams for all types of businesses.

22. Sales Compensation Plans. you want a sound sales compensation plan, you must first define you major aims and objectives. What they have been sharply outlined I may become clear that you show have a straight salary plan, or commission plan, or a combination of salary and commission. Unfortunately, many businessmen hagging over the details of the plan before they have determined their primal objectives. As a result they one succeed in wasting time and delagation.

ing the entire project.

23. Sales Personnel and Facilities Your analysis of your sales goat and territory potentials should ditate the number and kind of sales men assigned to any one sales are. This same information will also show you where you may need branch sales offices, warehouses of technical engineering personnel.

24. Customer and Dealer Prome tions. Customer promotions pla an important role for certain proc ucts like breakfast cereals and soap The most successful companies care fully pretest all such promotion before risking a promotional can paign on an untried premium dea sampling operation or prize cor test. Many of these successful opera tions have been known to induc two to five million people to bu the promoted product. Dealer pro motions should be pretested if yo are to get full value on your in vestment. Constant "dealing," how ever, is usually to be avoided. fails to stimulate purchasing be cause the buyer expects it as matter of course.

It is wise to reappraise your cu

mer and your dealer promotion ogram to make certain it is proply serving your current needs.

25. Advertising Sales Messages. fective advertising must have a les story that compels prospective yers to read or listen. Therefore, must be tuned to the customer's ir. Copy testing, though not fool roof, can eliminate a considerable mount of guessing and error. The chniques used should be tailored the copy problem and in most ases should be specially designed or your particular type of cusomer. For example, a new proceure for testing television commerials induces the typical viewer to play back" what he has seen and eard. An analysis of these free esponses reveals whether or not our story is making a deep enough benetration to produce a sale.

26. Profitable Advertising Media. Finding the most profitable advertising media requires a thorough knowledge of the customer markets for the product as well as the coverage of the publications, newspapers, radio, television and other media that can be effectively used to reach these markets. Too frequently an advertiser selects or approves a media list on the basis of his own personal knowledge or exposure to the advertising medium. Instead he should find out which of the many media will tell his story to the people he wants to sell.

27. Public Relations. When properly handled, a public relations program can open the doors to prospects that might never be reached through personal selling or advertising. Improperly handled "publicity" can bring nothing but trouble and grief to your firm. Like good selling and convincing advertising, a public relations program must be built by using all the available facts about the market, the product, the customer's use of the product and the company's selling methods.

You will find this check list most helpful if you will first select the marketing problems that should demand your immediate attention. Next check those that should be tackled this year. Then go back and select those that must wait until the primary and secondary problems have had proper attention. These check points can then be used as part of your overall marketing program.

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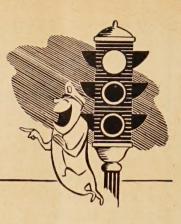
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# Stop me...If...



There was a sad accident one day in the heart of the Ozark Mountains. A farmer's mule kicked his mother-in-law to death. A tremendous crowd turned out for the funeral, but it was made up almost en-tirely of men. The minister commented, "This old lady must have been mighty popular because so many people will leave their work to come to her funeral.'

"They're not here for the funeral," said the surprised farmer. They're here to buy the mule."

There were fewer wrecks in the horse and buggy days because the driver did not depend entirely on his own judgment.

Mechanic-"Which do you prefer, leather

or fabric auto upholstering?" Second Mechanic—"I like fabric; leather is too hard to wipe your hands on."

Son - "Pop, what is creeping inflation?" Father — "It's when your mother starts out asking for a new hat and winds up with a complete new outfit."

"I knew them danged scientists would keep a foolin' around until they did something they hadn't oughter," stormed the old man from the hills. "Now look what they've gone and did."

"What's that, Paw," asked his wife, "you mean the atom bomb?"
"Heck no," exploded the old man, "they've fooled around until now they've discovered something besides likker to cure a cold."

Stalin one day was giving Mao Tse Tung instructions in practical communism.
"Comrade," he said, "how would you

make a cat eat chili pepper?'

"There are two ways," said Mao. "I could force it down him, or I could stuff a fish with the pepper and give the fish to the cat.'

"Wrong," replied Stalin. "It's not compatible with our ideology. The first method is coercion, the second deception. You know we never coerce or deceive the people.'

"Then how would you do it?" asked-Mao.

"I would rub the pepper on the cat's tail. When this smarts the cat would turn around and lick its tail, thus eating the pepper voluntarily."

His car and her car met head on. Both drivers got out and, with fine courtesy so characteristic of motorists nowadays, both began to apologize profusely. "I'm so sorry," said the woman. "It was all my fault."

"Not at all, madam," the man responded with gallantry. "I was to blame myself." "But I insist the fault was mine. I was

on your side of the road."
"That may be true, but, my dear madam, I am responsible for the collision. I saw you coming blocks away, and I had ample opportunity to turn down a side street."

The farmer's wife lost a thumb when their light passenger car collided with a heavily loaded freight truck.

A few hours later when she was discharged from the hospital, the claims adjuster for the trucking company called at her home:

She suggested a settlement figure and the adjuster turned purple with rage. "Madam," he exploded, "can't you see that your claim for \$50,000 for a single digit is ridical to a single digit. digit is ridiculous?"

"Maybe you think so," she explained, "but that was no ordinary thumb. It was the one I kept my husband under!"

The new recruit was finding his day of training very rugged. Having pp through the obstacle course to thee The officer in charge, noticing the on the ground, asked what was the ma "My leg, sir," groaned the man, think I broke it on that last hurdle.

'Well, then, don't waste time just 1 there - do push ups until the medics here."

A thirsty man entered a bar and to the bartender, "Make me a very Martini, please - twenty parts gin to part vermouth."

The bartender obliged and as he about to serve the cocktail to the custon he asked, "Do you wish me to squeez little lemon peel in it, Sir?"

The Martini connoisseur was outrage "Say," he barked, "if I wanted a lennade, I'd ask for it."

The courtroom was crowded as the jui finished his lecture to the defendant in divorce case. "So I have decided to g your wife \$100 per month," were his words

The husband's face lit up. "That's fif Judge. I'll try to slip her a few but now and then, too."

A psychiatric board was testing the motality of a soldier. "Do you ever hovoices without being able to tell who speaking or where the voices come from he was asked. "Yes, sir."

"And when does this occur?" "When I answer the telephone."

Contractor: "What do you want? I fir

you two weeks ago."

Helper: "I came back to see if you" still in business.'



"He bawled me out for doing it, but this is the second time I've caught him trying it!"